

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/774,378

Source: 1Fw16

Date Processed by STIC: 10/24/07

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/774,378

DATE: 10/24/2007
TIME: 11:56:15

Input Set : A:\10774378.txt
Output Set: N:\CRF4\10242007\J774378.raw

2 <110> APPLICANT: Ono Pharmaceutical Co., Ltd.
4 <120> TITLE OF INVENTION: Novel Polypeptides, DNAs encoding the polypeptides, and utility of the
5 Polypeptides
7 <130> FILE REFERENCE: Q55589
9 <140> CURRENT APPLICATION NUMBER: 10/774,378
10 <141> CURRENT FILING DATE: 2004-02-10
12 <150> PRIOR APPLICATION NUMBER: 09/380,276
13 <151> PRIOR FILING DATE: 1999-08-27
15 <150> PRIOR APPLICATION NUMBER: JP 9-43143
16 <151> PRIOR FILING DATE: 1997-02-27
18 <150> PRIOR APPLICATION NUMBER: PCT/JP98/00799
19 <151> PRIOR FILING DATE: 1997-02-27
21 <160> NUMBER OF SEQ ID NOS: 10
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1251
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo Sapiens
30 <400> SEQUENCE: 1
31 atggcttaa aagtgtact agaacaagag aaaacgttt tcactcttt agtattacta 60
33 ggctattgt catgtaaagt gacttgtgaa acaggagact gtagacagca agaattcagg 120
35 gatcggtctg gaaactgtgt tccctgcaac cagtgtggc caggcatgga gttgtctaag 180
37 gaatgtggct tcggctatgg ggaggatgca cagtgtgtga cgtgcccgt gcacaggttc 240
39 aaggaggact ggggcttcca gaaatgcaag ccctgtctgg actgcgcagt ggtgaaccgc 300
41 tttcagaagg caaattgttc agccaccagt gatgccatct gcggggactg cttgccagga 360
43 ttttataagga agacgaaaact tgtcggctt caagacatgg agtgtgtgcc ttgtggagac 420
45 cctcctctc cttacgaacc gcaactgtgcc agcaaggta acctcgtgaa gatgcgtcc 480
47 acggcctcca gcccacgggaa cacggcgctg gctgcccgtta tctgcagcgc tctggccacc 540
49 gtcctgctgg ccctgtctcat cctctgtgtc atctattgtt agagacagt tatggagaag 600
51 aaacccagct ggtctctgca gtcacaggac attcagtaca acggctctga gctgtcgtgt 660
53 cttgacagac ctcagctcca cgaatatgcc cacagagcct gctgccagtg ccggcgtgac 720
55 tcagtcaga cctgcgggccc ggtgcgcctt ctcccatcca tgtgtgtga ggaggcctgc 780
57 agccccaaacc cggcgactct tgggtgtggg gtgcattctg cagccagctc tcaggcaaga 840
59 aacgcaggcc cagccgggga gatggtgccg actttctcg gatccctcac gcagtccatc 900
61 tgtggcgagt tttcagatgc ctggcctctg atgcagaatc ccatgggtgg tgacaacatc 960
63 tctttttgtg actcttatcc tgaactcaact ggagaagaca ttcattctct caatccagaa 1020
65 cttgaaagct caacgtctt ggattcaaat agcagtcaag atttgggtgg tggggctgtt 1080
67 ccagtccagt ctcattctga aaactttaca gcagactactg atttatctag atataacaac 1140
69 acactggtag aatcagcatc aactcaggat gcactaacta tgagaaggca gctagatcag 1200
71 gagagtggcg ctatcatcca cccagccact cagacgtccc tccaggaagc t 1251
73 <210> SEQ ID NO: 2
74 <211> LENGTH: 1704
75 <212> TYPE: DNA

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76 <213> ORGANISM: Homo sapiens

78 <400> SEQUENCE: 2

79	gggaacgtag aactctccaa caataaatac atttgataag aaagatggct ttaaaagtgc	60
81	tactagaaca agagaaaacg ttttcaactc ttttagtatt actaggctat ttgtcatgt	120
83	aagtacttg tcaaaccagga gactgttagac agcaagaatt cagggatcg tctggaaact	180
85	gtgttccctg caaccagtgt gggccaggca tggagttgtc taaggaatgt ggctcggct	240
87	atggggagga tgcacagtgt gtgacgtgcc ggctgcacag gttcaaggag gactggggct	300
89	tccagaaatg caagccctgt ctggactgcg cagttgtgaa ccgccttcag aaggcaaatt	360
91	gttcagccac cagtgtatgcc atctgcgggg actgcgttgc aggattttat aggaagacga	420
93	aacttgcgg cttaaagac atggagtgtg tgccttgg agacccttct cttcccttacg	480
95	aaccgcactg tgccagcaag gtcaacctcg tgaagatgcg gtccacggcc tccagccac	540
97	gggacacggc gctggctgcc gttatctgca gcgccttgc caccgttgc ctggccctgc	600
99	tcatcctctg tgtcatctat tgtaagagac agtttatgga gaagaaaccc agctggctc	660
101	tgcggtcaca ggacattcag tacaacggct ctgagctgtc gtgtcttgac agacccatc	720
103	tccacgaata tgcccacaga gcctgctgcc agtgcgcgcg tgactcagtgc cagacccatc	780
105	ggccgggtgcg ctgtgttccca tccatgtgtc gtgaggaggc ctgcagccccc aacccggcga	840
107	ctttgggttgggggtgc ttcgcaggca gtcttcaggc aagaaacgca ggcccgccg	900
109	gggagatggt gcccacttgc ttccggatccc tcacgcagtc catctgttgc gagttttcag	960
111	atgcctggcc tctgtatgcag aatcccatgg gtggtgcacaa catctcttt tttgtactt	1020
113	atccctgaact cactggagaa gacattcatt ctctcaatcc agaacttgcg agtcaacgt	1080
115	ctttggatttccaaatagcagt caagatttgg ttggggggc tttttccatgc cagtcttatt	1140
117	ctgaaaactt tacagcagct actgattttat cttagatataa caacacactg gttagaatcag	1200
119	catcaactca ggatgcacta actatgagaa gccagctaga tcaggagagt ggcgcstatca	1260
121	tccacccagc cactcagacg tccctccagg aagctttaaag aacctgttcc tttctgcagt	1320
123	agaaggcgtgt gctggaaaccc aaagagtact cctttgttag gcttatggac tgacgact	1380
125	ggaccttgc tggcttctgg ggcacaaaata aatctgaacc aaactgacgg catttgaagc	1440
127	cttcagcca gttgtttctg agccagacca gctgttaagct gaaacctcaa tgaataacaa	1500
129	gaaaagactc caggccgact catgataactc tgcataatcc ctacatgaga agcttctctg	1560
131	ccacaaaagt gacttcaaag acggatgggt tgagctggca gcctatgaga ttgtggacat	1620
133	ataacaagaa acagaaaatgc cctcatgctt atttcatgg tgattgtgg tttacaagac	1680
135	tgaagaccca gaggataactt ttcc	1704

138 <210> SEQ ID NO: 3

139 <211> LENGTH: 1704

140 <212> TYPE: DNA

141 <213> ORGANISM: Homo sapiens

143 <220> FEATURE:

144 <221> NAME/KEY: misc_feature

145 <223> OTHER INFORMATION: Origin: human bone marrow stromal cell line HAS303

148 <220> FEATURE:

149 <221> NAME/KEY: CDS

150 <222> LOCATION: (45)..(1295)

152 <220> FEATURE:

153 <221> NAME/KEY: sig_peptide

154 <222> LOCATION: (45)..(119)

156 <220> FEATURE:

157 <221> NAME/KEY: mat_peptide

158 <222> LOCATION: (120)..(1295)

160 <400> SEQUENCE: 3

161 gggaacgtag aactctccaa caataaatac atttgataag aaag atg gct tta aaa

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162	Met Ala Leu Lys	
163	-25	
165 gtg cta cta gaa caa gag aaa acg ttt ttc act ctt tta gta tta cta		104
166 Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu Leu Val Leu Leu		
167 -20 -15 -10		
169 ggc tat ttg tca tgt aaa gtg act tgt gaa aca gga gac tgt aga cag		152
170 Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Thr Gly Asp Cys Arg Gln		
171 -5 -1 1 5 10		
173 caa gaa ttc agg gat cgg tct gga aac tgt gtt ccc tgc aac cag tgt		200
174 Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro Cys Asn Gln Cys		
175 15 20 25		
177 ggg cca ggc atg gag ttg tct aag gaa tgt ggc ttc ggc tat ggg gag		248
178 Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe Gly Tyr Gly Glu		
179 30 35 40		
181 gat gca cag tgt gtg acg tgc cgg ctg cac agg ttc aag gag gac tgg		296
182 Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe Lys Glu Asp Trp		
183 45 50 55		
185 ggc ttc cag aaa tgc aag ccc tgt ctg gac tgc gca gtg gtg aac cgc		344
186 Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala Val Val Asn Arg		
187 60 65 70 75		
189 ttt cag aag gca aat tgt tca gcc acc agt gat gcc atc tgc ggg gac		392
190 Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala Ile Cys Gly Asp		
191 80 85 90		
193 tgc ttg cca gga ttt tat agg aag acg aaa ctt gtc ggc ttt caa gac		440
194 Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val Gly Phe Gln Asp		
195 95 100 105		
197 atg gag tgt gtg cct tgt gga gac cct cct cct tac gaa ccg cac		488
198 Met Glu Cys Val Pro Cys Gly Asp Pro Pro Pro Pro Tyr Glu Pro His		
199 110 115 120		
201 tgt gcc agc aag gtc aac ctc gtg aag atc gcg tcc acg gcc tcc agc		536
202 Cys Ala Ser Lys Val Asn Leu Val Lys Ile Ala Ser Thr Ala Ser Ser		
203 125 130 135		
205 cca cgg gac acg gcg ctg gct gcc gtt atc tgc agc gct ctg gcc acc		584
206 Pro Arg Asp Thr Ala Leu Ala Val Ile Cys Ser Ala Leu Ala Thr		
207 140 145 150 155		
209 gtc ctg ctg gcc ctg ctc atc ctc tgt gtc atc tat tgt aag aga cag		632
210 Val Leu Leu Ala Leu Ile Leu Cys Val Ile Tyr Cys Lys Arg Gln		
211 160 165 170		
213 ttt atg gag aag aaa ccc agc tgg tct ctg cgg tca cag gac att cag		680
214 Phe Met Glu Lys Lys Pro Ser Trp Ser Leu Arg Ser Gln Asp Ile Gln		
215 175 180 185		
217 tac aac ggc tct gag ctg tcg tgt ctt gac aga cct cag ctc cac gaa		728
218 Tyr Asn Gly Ser Glu Leu Ser Cys Leu Asp Arg Pro Gln Leu His Glu		
219 190 195 200		
221 tat gcc cac aga gcc tgc tgc cag tgc cgc cgt gac tca gtg cag acc		776
222 Tyr Ala His Arg Ala Cys Cys Gln Cys Arg Arg Asp Ser Val Gln Thr		
223 205 210 215		
225 tgc ggg ccg gtg cgc ttg ctc cca tcc atg tgc tgt gag gag gcc tgc		824
226 Cys Gly Pro Val Arg Leu Leu Pro Ser Met Cys Cys Glu Glu Ala Cys		

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227	220	225	230	235	
229	agc ccc aac ccg gcg act ctt ggt tgt ggg gtg cat tct gca gcc agt				872
230	Ser Pro Asn Pro Ala Thr Leu Gly Cys Gly Val His Ser Ala Ala Ser				
231	240	245	250		
233	ctt cag gca aga aac gca ggc cca gcc ggg gag atg gtg ccg act ttc				920
234	Leu Gln Ala Arg Asn Ala Gly Pro Ala Gly Glu Met Val Pro Thr Phe				
235	255	260	265		
237	tcc gga tcc ctc acg cag tcc atc tgt ggc gag ttt tca gat gcc tgg				968
238	Phe Gly Ser Leu Thr Gln Ser Ile Cys Gly Glu Phe Ser Asp Ala Trp				
239	270	275	280		
241	cct ctg atg cag aat ccc atg ggt ggt gac aac atc tct ttt tgt gac				1016
242	Pro Leu Met Gln Asn Pro Met Gly Gly Asp Asn Ile Ser Phe Cys Asp				
243	285	290	295		
245	tct tat cct gaa ctc act gga gaa gac att cat tct ctc aat cca gaa				1064
246	Ser Tyr Pro Glu Leu Thr Gly Glu Asp Ile His Ser Leu Asn Pro Glu				
247	300	305	310	315	
249	ctt gaa agc tca acg tct ttg gat tca aat agc agt caa gat ttg gtt				1112
250	Leu Glu Ser Ser Thr Ser Leu Asp Ser Asn Ser Ser Gln Asp Leu Val				
251	320	325	330		
253	ggg ggt gtt cca gtc cag tct cat tct gaa aac ttt aca gca gct				1160
254	Gly Gly Ala Val Pro Val Gln Ser His Ser Glu Asn Phe Thr Ala Ala				
255	335	340	345		
257	act gat tta tct aga tat aac aac aca ctg gta gaa tca gca tca act				1208
258	Thr Asp Leu Ser Arg Tyr Asn Asn Thr Leu Val Glu Ser Ala Ser Thr				
259	350	355	360		
261	cag gat gca cta act atg aga agc cag cta gat cag gag agt ggc gct				1256
262	Gln Asp Ala Leu Thr Met Arg Ser Gln Leu Asp Gln Glu Ser Gly Ala				
263	365	370	375		
265	atc atc cac cca gcc act cag acg tcc ctc cag gaa gct taaagaacct				1305
266	Ile Ile His Pro Ala Thr Gln Thr Ser Leu Gln Glu Ala				
267	380	385	390		
269	gtttctttct gcagtagaag cgtgtgctgg aacccaaaga gtactccctt gttaggctta				1365
271	tggactgagc agtctggacc ttgcattggct tctggggcaa aaataaatct gaaccaaact				1425
273	gacggcatt gaaggcatttc agccagttgc ttctgagcca gaccagctgt aagctgaaac				1485
275	ctcaatgaat aacaagaaaa gactccaggc cgactcatga tactctgcat ctttcctaca				1545
277	tgagaagctt ctctgccaca aaagtgactt caaagacgga tgggttgagc tggcagccta				1605
279	tgagattgtg gacatataac aagaaacaga aatgccctca tgcttatttt catggtgatt				1665
281	gtggttttac aagactgaag acccagagta tacttttc				1704
284	<210> SEQ ID NO: 4				
285	<211> LENGTH: 417				
286	<212> TYPE: PRT				
287	<213> ORGANISM: Homo sapiens				
289	<220> FEATURE:				
290	<221> NAME/KEY: misc_feature				
291	<223> OTHER INFORMATION: Origin: human bone marrow stromal cell line HAS303				
293	<400> SEQUENCE: 4				
295	Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu				
296	-25	-20	-15	-10	
299	Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Thr Gly				

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300	-5	-1	1	5
303	Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro			
304	10	15		20
307	Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe			
308	25	30	35	
311	Gly Tyr Gly Glu Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe			
312	40	45	50	55
315	Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala			
316	60	65		70
319	Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala			
320	75	80	85	
323	Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val			
324	90	95		100
327	Gly Phe Gln Asp Met Glu Cys Val Pro Cys Gly Asp Pro Pro Pro Pro			
328	105	110	115	
331	Tyr Glu Pro His Cys Ala Ser Lys Val Asn Leu Val Lys Ile Ala Ser			
332	120	125	130	135
335	Thr Ala Ser Ser Pro Arg Asp Thr Ala Leu Ala Ala Val Ile Cys Ser			
336	140	145		150
339	Ala Leu Ala Thr Val Leu Leu Ala Leu Leu Ile Leu Cys Val Ile Tyr			
340	155	160	165	
343	Cys Lys Arg Gln Phe Met Glu Lys Lys Pro Ser Trp Ser Leu Arg Ser			
344	170	175	180	
347	Gln Asp Ile Gln Tyr Asn Gly Ser Glu Leu Ser Cys Leu Asp Arg Pro			
348	185	190	195	
351	Gln Leu His Glu Tyr Ala His Arg Ala Cys Cys Gln Cys Arg Arg Asp			
352	200	205	210	215
355	Ser Val Gln Thr Cys Gly Pro Val Arg Leu Leu Pro Ser Met Cys Cys			
356	220	225		230
359	Glu Glu Ala Cys Ser Pro Asn Pro Ala Thr Leu Gly Cys Gly Val His			
360	235	240	245	
363	Ser Ala Ala Ser Leu Gln Ala Arg Asn Ala Gly Pro Ala Gly Glu Met			
364	250	255	260	
367	Val Pro Thr Phe Phe Gly Ser Leu Thr Gln Ser Ile Cys Gly Glu Phe			
368	265	270	275	
371	Ser Asp Ala Trp Pro Leu Met Gln Asn Pro Met Gly Gly Asp Asn Ile			
372	280	285	290	295
375	Ser Phe Cys Asp Ser Tyr Pro Glu Leu Thr Gly Glu Asp Ile His Ser			
376	300	305		310
379	Leu Asn Pro Glu Leu Glu Ser Ser Thr Ser Leu Asp Ser Asn Ser Ser			
380	315	320	325	
383	Gln Asp Leu Val Gly Gly Ala Val Pro Val Gln Ser His Ser Glu Asn			
384	330	335	340	
387	Phe Thr Ala Ala Thr Asp Leu Ser Arg Tyr Asn Asn Thr Leu Val Glu			
388	345	350	355	
391	Ser Ala Ser Thr Gln Asp Ala Leu Thr Met Arg Ser Gln Leu Asp Gln			
392	360	365	370	375
395	Glu Ser Gly Ala Ile Ile His Pro Ala Thr Gln Thr Ser Leu Gln Glu			
396	380	385		390

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 27,28,29,30,31,32,33,34,35

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#: 9, 10

VERIFICATION SUMMARY

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L:786 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9

L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0